

Chemical Properties of the Soils

Russell County, Alabama

NOTE: Absence of an entry indicates that data were not estimated.

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AnA:								
Annemaine-----	0-4	---	---	4.5-6.5	---	---	0	---
	4-12	---	---	4.5-5.5	---	---	0	---
	12-20	---	---	4.5-5.5	---	---	0	---
	20-42	---	---	4.5-5.5	---	---	0	---
	42-65	---	---	4.5-5.5	---	---	0	---
BdA:								
Bladen-----	0-14	---	---	3.6-5.5	---	---	0	---
	14-65	---	---	3.6-5.5	---	---	0	---
BeA:								
Bladen-----	0-3	---	---	3.6-5.5	---	---	0	---
	3-45	---	---	3.6-5.5	---	---	0	---
	45-65	---	---	3.6-5.5	---	---	0	---
BnB:								
Blanton-----	0-42	---	1.0-8.0	4.5-6.0	0	0	0.0-2.0	0
	42-52	---	5.0-10	4.5-5.5	0	0	0.0-2.0	0
	52-65	---	5.0-10	4.5-5.5	0	0	0.0-2.0	0
CnB:								
Conecuh-----	0-3	---	---	3.6-5.5	0	0	0	0
	3-68	---	---	3.6-5.5	0	0	0	0
	68-80	---	---	---	0	0	---	0
CoC2:								
Conecuh-----	0-3	---	---	3.6-5.5	0	0	0	0
	3-65	---	---	3.6-5.5	0	0	0	0
CtB:								
Congaree-----	0-14	6.0-15	---	4.5-7.3	0	0	0	0
	14-80	5.0-18	---	4.5-7.3	0	0	0	0
Toccoa-----	0-5	2.0-5.0	---	5.1-6.5	0	0	0	0
	5-65	1.0-4.0	---	5.1-6.5	0	0	0	0
CwB:								
Cowarts-----	0-6	---	1.0-5.0	4.5-5.5	0	0	0	0
	6-28	---	2.0-10	4.5-5.5	0	0	0	0
	28-65	---	2.0-8.0	4.5-5.5	0	0	0	0
DgA:								
Dogue-----	0-11	---	2.0-6.0	3.5-5.5	0	0	0	0
	11-37	---	8.0-20	3.5-5.5	0	0	0	0
	37-70	---	1.0-6.0	3.5-5.5	0	0	0	0
DoA:								
Dothan-----	0-6	---	---	4.5-6.0	---	---	0	---
	6-34	---	---	4.5-6.0	---	---	0	---
	34-65	---	---	4.5-6.0	---	---	0	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
DoB:								
Dothan-----	0-5	---	---	4.5-6.0	---	---	0	---
	5-39	---	---	4.5-6.0	---	---	0	---
	39-65	---	---	4.5-6.0	---	---	0	---
FpA:								
Fluvaquents-----	0-6	---	---	3.6-5.5	0	0	0	0
	6-80	---	---	3.6-5.5	0	0	0	0
FuB:								
Fuquay-----	0-28	---	1.0-3.0	4.5-6.0	0	0	0	0
	28-48	---	1.0-4.0	4.5-6.0	0	0	0	0
	48-65	---	2.0-4.0	4.5-6.0	0	0	0	0
GoA:								
Goldsboro-----	0-9	---	1.0-4.0	3.5-5.5	0	0	0	0
	9-28	---	2.0-4.0	3.5-5.5	0	0	0	0
	28-64	---	2.0-4.0	3.5-5.5	0	0	0	0
	64-90	---	---	---	---	---	---	---
GrB:								
Gritney-----	0-13	---	2.0-7.0	3.5-6.0	0	0	0	0
	13-49	---	7.0-13	3.5-5.5	0	0	0	0
	49-80	---	2.0-8.0	3.5-5.5	0	0	0	0
HaB:								
Hannon-----	0-4	15-30	---	5.1-7.3	0	0	0	0
	4-12	30-50	---	5.1-7.3	0	0	0	0
	12-21	30-50	---	5.6-7.8	0-5	0	0	0
	21-65	20-40	---	7.4-8.4	15-40	0	0	0
HnC2:								
Hannon-----	0-2	20-30	---	5.1-7.3	0	0	0	0
	2-7	30-50	---	5.1-7.3	0	0	0	0
	7-12	30-50	---	5.6-7.8	0-5	0	0	0
	12-65	20-40	---	7.4-8.4	15-40	0	0	0
HnD2:								
Hannon-----	0-2	20-30	---	5.1-7.3	0	0	0	0
	2-10	30-50	---	5.1-7.3	0	0	0	0
	10-26	30-50	---	5.6-7.8	0-5	0	0	0
	26-65	20-40	---	7.4-8.4	15-40	0	0	0
HsE2:								
Hannon-----	0-5	20-30	---	5.1-7.3	0	0	0	0
	5-16	30-50	---	5.1-7.3	0	0	0	0
	16-22	30-50	---	5.6-7.8	0-5	0	0	0
	22-65	20-40	---	7.4-8.4	15-40	0	0	0
Sumter-----	0-4	---	---	6.6-8.4	---	0	0	0
	4-29	---	---	7.4-8.4	---	0	0	0
	29-34	---	---	7.4-8.4	---	0	0	0
	34-65	---	---	---	---	---	---	---
KMA:								
Kinston-----	0-3	---	3.0-11	4.5-6.0	0	0	0	0
	3-65	---	3.0-10	4.5-5.5	0	0	0	0
Mantachie-----	0-4	---	---	4.5-5.5	---	---	0	---
	4-65	---	---	4.5-5.5	---	---	0	---
Iuka-----	0-8	---	---	5.1-6.0	---	---	0	---
	8-80	---	---	4.5-5.5	---	---	0	---

Chemical Properties of the Soils, cont.

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
KoA:								
Kolomoki-----	0-6	---	---	4.5-6.5	---	---	0	---
	6-36	---	---	4.5-6.0	---	---	0	---
	36-48	---	---	4.5-6.0	---	---	0	---
	48-65	---	---	4.5-6.0	---	---	0	---
LnB:								
Luverne-----	0-10	---	---	3.6-5.5	---	---	0	---
	10-48	---	---	3.6-5.5	---	---	0	---
	48-65	---	---	3.6-5.5	---	---	0	---
LnC2:								
Luverne-----	0-4	---	---	3.6-5.5	---	---	0	---
	4-33	---	---	3.6-5.5	---	---	0	---
	33-65	---	---	3.6-5.5	---	---	0	---
LsE:								
Luverne-----	0-3	---	---	3.6-5.5	---	---	0	---
	3-23	---	---	3.6-5.5	---	---	0	---
	23-29	---	---	3.6-5.5	---	---	0	---
	29-65	---	---	3.6-5.5	---	---	0	---
Springhill-----	0-4	---	---	4.5-5.5	---	---	0	---
	4-12	---	---	4.5-5.5	---	---	0	---
	12-65	---	---	4.5-5.5	---	---	0	---
LyA:								
Lynchburg-----	0-15	---	1.0-4.0	3.6-6.0	0	0	0	0
	15-65	---	2.0-7.0	3.6-5.5	0	0	0	0
	65-80	---	2.0-7.0	3.6-5.5	---	---	---	---
MnB:								
Marvyn-----	0-6	---	---	4.5-6.0	---	---	0	---
	6-49	---	---	4.5-6.0	---	---	0	---
	49-65	---	---	4.5-6.0	---	---	0	---
MxA:								
Maxton-----	0-10	---	1.0-3.0	4.5-6.0	0	0	0	0
	10-38	---	2.0-4.0	4.5-5.5	0	0	0	0
	38-75	---	0.0-1.0	4.5-5.5	0	0	0	0
OcA:								
Ocilla-----	0-28	---	1.0-3.0	4.5-5.5	0	0	0	0
	28-48	---	3.0-6.0	4.5-5.5	0	0	0	0
	48-65	---	3.0-7.0	4.5-5.5	0	0	0	0
OrA:								
Orangeburg-----	0-8	---	1.0-2.0	4.5-6.0	0	0	0	0
	8-15	---	2.0-3.0	4.5-6.0	0	0	0	0
	15-80	---	2.5-4.0	4.5-5.5	0	0	0	0
OuC:								
Orangeburg-----	0-8	---	1.0-2.0	4.5-6.0	0	0	0	0
	8-15	---	2.0-3.0	4.5-6.0	0	0	0	0
	15-80	---	2.5-4.0	4.5-5.5	0	0	0	0
Urban Land-----	0-6	---	---	---	---	---	0	---
PaE:								
Pacolet-----	0-4	4.0-7.0	---	4.5-6.5	0	0	0	0
	4-22	---	6.0-18	4.5-6.0	0	0	0	0
	22-80	---	4.0-10	4.5-6.0	0	0	0	0
Pt:								
Pits-----	0-60	---	---	---	---	---	0	---

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
RbA:								
Red Bay-----	0-9	---	---	4.5-6.0	---	---	0	---
	9-29	---	---	4.5-6.0	---	---	0	---
	29-65	---	---	4.5-5.5	---	---	0	---
RvA:								
Riverview-----	0-8	3.0-12	---	4.5-6.5	0	0	0	0
	8-43	---	4.0-10	4.5-6.0	0	0	0	0
	43-65	---	2.0-6.0	4.5-6.0	0	0	0	0
SbB:								
Springhill-----	0-7	---	---	4.5-5.5	---	---	0	---
	7-42	---	---	4.5-5.5	---	---	0	---
	42-65	---	---	4.5-5.5	---	---	0	---
ScD:								
Springhill-----	0-4	---	---	4.5-5.5	---	---	0	---
	4-12	---	---	4.5-5.5	---	---	0	---
	12-65	---	---	4.5-5.5	---	---	0	---
Cowarts-----	0-6	---	1.0-5.0	4.5-5.5	0	0	0	0
	6-24	---	2.0-10	4.5-5.5	0	0	0	0
	24-65	---	2.0-8.0	4.5-5.5	0	0	0	0
Urban Land-----	0-6	---	---	---	---	---	0	---
ShE3:								
Sumter-----	0-3	---	---	6.6-8.4	---	0	0	0
	3-38	---	---	7.4-8.4	---	0	0	0
	38-80	---	---	---	---	---	---	---
Hannon-----	0-2	20-30	---	5.1-7.3	0	0	0	0
	2-11	30-50	---	5.1-7.3	0	0	0	0
	11-22	30-50	---	5.6-7.8	0-5	0	0	0
	22-40	20-40	---	7.4-8.4	15-40	0	0	0
	40-80	15-35	---	7.9-8.4	30-80	0	0	0
TaB:								
Troup-----	0-56	---	---	4.5-6.0	---	---	0	---
	56-80	---	---	4.5-5.5	---	---	0	---
Alaga-----	0-4	---	2.0-8.0	3.6-6.0	0	0	0	0
	4-80	---	1.0-6.0	3.6-6.0	0	0	0	0
TsE:								
Troup-----	0-50	---	---	4.5-6.0	---	---	0	---
	50-65	---	---	4.5-5.5	---	---	0	---
Springhill-----	0-4	---	---	4.5-5.5	---	---	0	---
	4-12	---	---	4.5-5.5	---	---	0	---
	12-65	---	---	4.5-5.5	---	---	0	---
Luverne-----	0-8	---	---	3.6-5.5	---	---	0	---
	8-53	---	---	3.6-5.5	---	---	0	---
	53-65	---	---	3.6-5.5	---	---	0	---
UcB:								
Uchee-----	0-30	---	1.0-5.0	4.5-5.5	0	0	0	0
	30-54	---	1.0-10	4.5-5.5	0	0	0	0
	54-80	---	3.0-10	4.5-5.5	0	0	0	0
Cowarts-----	0-12	---	1.0-5.0	4.5-5.5	0	0	0	0
	12-34	---	2.0-10	4.5-5.5	0	0	0	0
	34-65	---	2.0-8.0	4.5-5.5	0	0	0	0

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
UcD:								
Uchee-----	0-28	---	1.0-5.0	4.5-5.5	0	0	0	0
	28-44	---	1.0-10	4.5-5.5	0	0	0	0
	44-65	---	3.0-10	4.5-5.5	0	0	0	0
Cowarts-----	0-6	---	1.0-5.0	4.5-5.5	0	0	0	0
	6-24	---	2.0-10	4.5-5.5	0	0	0	0
	24-65	---	2.0-8.0	4.5-5.5	0	0	0	0
UdA:								
Udorthents-----	0-80	---	---	3.6-5.5	0	0	0	0
Urban Land-----	0-6	---	---	---	---	---	0	---
Ur:								
Urban Land-----	0-60	---	---	---	---	---	0	---
UuA:								
Urbo-----	0-8	---	---	4.5-5.5	---	---	0	---
	8-65	---	---	4.5-5.5	---	---	0	---
Mooreville-----	0-6	---	---	4.5-5.5	---	---	0	---
	6-45	---	---	4.5-5.5	---	---	0	---
	45-70	---	---	4.5-5.5	---	---	0	---
Una-----	0-3	---	---	4.5-5.5	---	---	0	---
	3-65	---	---	4.5-5.5	---	---	0	---
WbA:								
Wahee-----	0-4	---	3.0-10	4.5-6.0	0	0	0	0
	4-65	---	8.0-20	3.6-5.5	0	0	0	0
Bladen-----	0-10	---	---	3.6-5.5	---	---	0	---
	10-51	---	---	3.6-5.5	---	---	0	---
	51-65	---	---	3.6-5.5	---	---	0	---
WkA:								
Wickham-----	0-4	---	2.0-5.0	4.5-6.0	0	0	0	0
	4-40	---	3.0-8.0	4.5-6.0	0	0	0	0
	40-65	---	---	---	---	---	---	---